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CTC AAA TGG ATC AGG AAA AAA TTC CCC CAC ATA TTC AAG CAA CCA	675
Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys Gln Pro	
TTT AAG AAG ACC ACT GGA GCA GCT CAA GAG GAA GAT GCT TGT AGC	720
Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Asp Ala Cys Ser	
TGC CGA TGT CCA CAG GAA GAA GAA GGA GGA GGA GGA GGC TAT GAG	765
Cys Arg Cys Pro Gln Glu Glu Glu Gly Gly Gly Gly Gly Tyr Glu	
CTG TGA	771
Leu ---	
TGTACTATCC TAGGAGATGT GTGGGCCGAA ACCGAGAAGC ACTAGGACCC	821
CACCATCCTG TGGAACAGCA CAAGCAACCC CACCACCCTG TTCTTACACA	871
TCATCCTAGA TGATGTGTGG GCGCGCACCT CATCCAAGTC TCTTCTAACG	921
CTAACATATT TGTCTTTACC TTTTAAAT CTTTTTTTAA ATTTAAATTT	971
TATGTGTGTG AGTGTTTTGC CTGCCTGTAT GCACACGTGT GTGTGTGTGT	1021
GTGTGTGACA CTCCTGATGC CTGAGGAGGT CAGAAGACAA AGGGTTGGTT	1071
CCATAAGAAC TGGAGTTATG GATGGCTGTG AGCCGNNNG ATAGGTCGGG	1121
ACGGAGACCT GTCTTCTTAT TTTAACGTGA CTGTATAATA AAAAATAAAT	1171
GATATTTTCGG GAATTGTAGA GATTGTCCTG ACACCCTTCT AGTTAATGAT	1221
CTAAGAGGAA TTGTTGATAC GTAGTATACT GTATATGTGT ATGTATATGT	1271
ATATGTATAT ATAAGACTCT TTTACTGTCA AAGTCAACCT AGAGTGTCTG	1321
GTTACCAGGT CAATTTTATT GGACATTTTA CGTCACACAC ACACACACAC	1371
ACACACACAC ACGTTTATAC TACGTACTGT TATCGGTATT CTACGTCATA	1421
TAATGGGATA GGGTAAAAGG AAACCAAAGA GTGAGTGATA TTATTGTGGA	1471
GGTGACAGAC TACCCCTTCT GGGTACGTAG GGACAGACCT CTTTCGGACT	1521
GTCTAAAACCT CCCCTTAGAA GTCTCGTCAA GTTCCCGGAC GAAGAGGACA	1571
GAGGAGACAC AGTCCGAAAA GTTATTTTTC CGGCAAATCC TTTCCCTGTT	1621
TCGTGACACT CCACCCCTTG TGGACACTTG AGTGTATCC TTGCGCCGGA	1671
AGGTCAGGTG GTACCCGTCT GTAGGGGCGG GGAGACAGAG CCGCGGGGGA	1721
GCTACGAGAA TCGACTCACA GGGCGCCCCG GGCTTCGCAA ATGAAACTTT	1771
TTAATCTCA CAAGTTTCGT CCGGGCTCGG CGGACCTATG GCGTCGATCC	1821
TTATTACCTT ATCCTGGCGC CAAGATAAAA CAACCAAAG CTTGACTCC	1871
GGTACTAATT CTCCCTGCCG GCGCCCGTAA GCATAACGCG GCGATCTCCA	1921
CTTTAAGAAC CTGGCCGCGT TCTGCCTGGT CTCGCTTTCG TAAACGGTTC	1971
TTACAAAAGT AATTAGTTCT TGCTTTCAGC CTCCAAGCTT CTGCTAGTCT	2021
ATGGCAGCAT CAAGGCTGGT ATTTGCTACG GCTGACCGCT ACGCCGCCGC	2071
AATAAGGGTA CTGGGCGGCC CGTCGAAGGC CCTTTGGTTT CAGAAACCCA	2121
AGGCCCCCCT CATACCAACG TTTGACTTT GATTCTTGCC GGTACGTGGT	2171
GGTGGGTGCC TTAGCTCTTT CTCGATAGTT AGAC	2205

Fig. 1 Cont'd

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human homologue of mouse 4-1bb

h4-1bb Length 838

1	AATCAGCTTT	GCTAGTATCA	TACCTGTGCC	AGATTTTCATC	ATGGGAAACA
51	GCTGTTACAA	CATAGTAGCC	ACTCTGTTGC	TGGTCCTCAA	CTTTGAGAGG
101	ACAAGATCAT	TGCAGGATCC	TTGTAGTAAC	TGCCCAGCTG	GTACATTCTG
151	TGATAATAAC	AGGAATCAGA	TTTGCAGTCC	CTGTCCTCCA	AATAGTTTCT
201	CCAGCGCAGG	TGGACAAAGG	ACCTGTGACA	TATGCAGGCA	GTGTAAAGGT
251	GTTTTTCAGGA	CCAGGAAGGA	GTGTTTCCTCC	ACCAGCAATG	CAGAGTGTGA
301	CTGCACTCCA	GGGTTTCACT	GCCTGGGGGC	AGGATGCAGC	ATGTGTGAAC
351	AGGATTGTAA	ACAAGGTCAA	GAACGTGACAA	AAAAAGGTTG	TAAAGACTGT
401	TGCTTTGGGA	CATTTAACGA	TCAGAAACGT	GGCATCTGTC	GACCCTGGAC
451	AAACTGTTCT	TTGGATGGAA	AGTCTGTGCT	TGTGAATGGG	ACGAAGGAGA
501	GGGACGTGGT	CTGTGGACCA	TCTCCAGCTG	ACCTCTCTCC	GGGAGCATCC
551	TCTGTGACCC	CGCCTGCCCC	TGCGAGAGAG	CCAGGACACT	CTCCGCAGAT
601	CATCTCCTTC	TTTCTTGCGC	TGACGTCGAC	TGCGTTGCTC	TTCCTGCTGT
651	TCTTCCTCAC	GCTCCGTTTC	TCTGTTGTTA	AACGGGGCAG	AAAGAAACTC
701	CTGTATATAT	TCAAACAACC	ATTTATGAGA	CCAGTACAAA	CTACTCAAGA
751	GGAAGATGGC	TGTAGCTGCC	GATTTCCAGA	AGAAGAAGAA	GGAGGATGTG
801	AACTGTGAAA	TGGAAGTCAA	TAGGGCTGTT	GGGACTTT	

Fig. 2A

1	MGNSCYNIVA	TLLLVLNFER	TRSLQDPCSN	CPAGTFCDNN	RNQICSPCPP
51	NSFSSAGGQR	TCDICRQCKG	VFRTRKECSS	TSNAECDCTP	GFHCLGAGCS
101	MCEQDCKQGQ	ELTKKGCKDC	CFGTFNDQKR	GICRPWTNCS	LDGKSVLVNG
151	TKERDVVCGP	SPADLSPGAS	SVTPPAPARE	PGHSPQIISF	FLALTSTALL
201	FLLFFLTLLRF	SVVKRGRKKL	LYIFKQPFMR	PVQTTQEEDG	CSCRFPEEEE
251	GGCEL				

Fig. 2B

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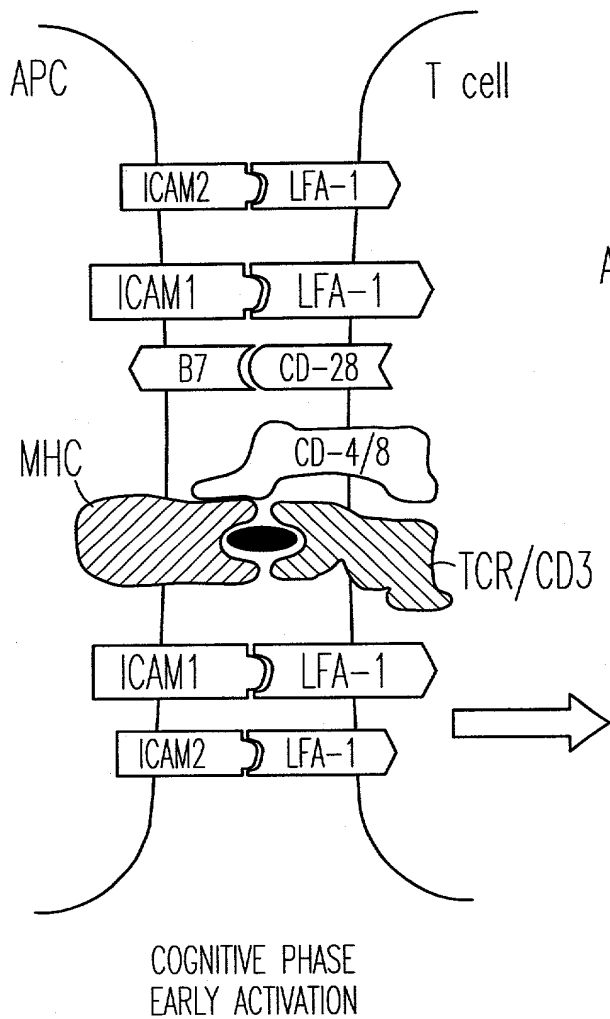


Fig. 3a

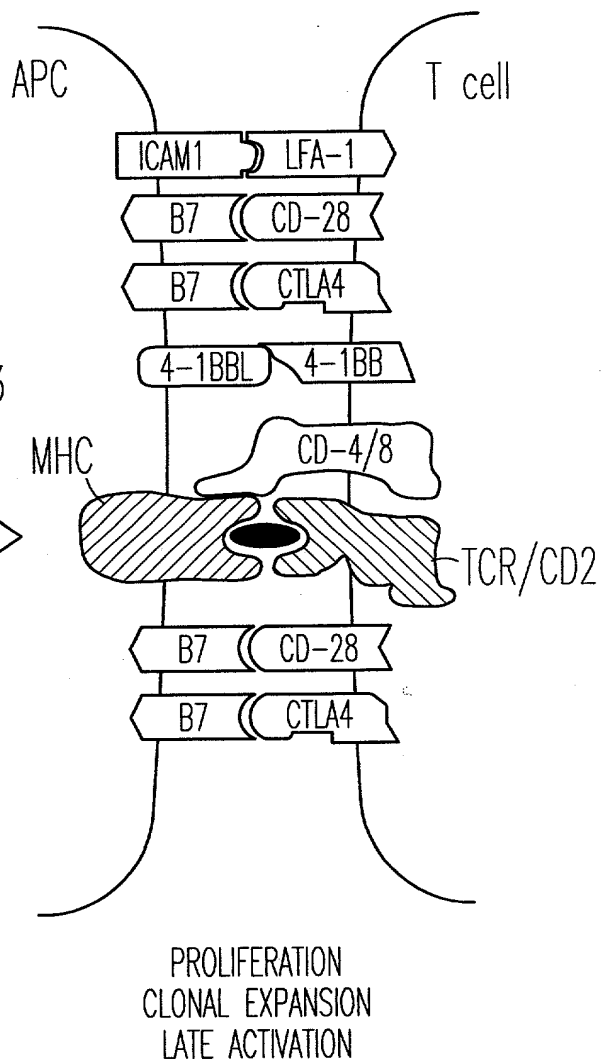


Fig. 3b

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TRADEMARK OFFICE

NORMAL T CELL ACTIVATION PATHWAY

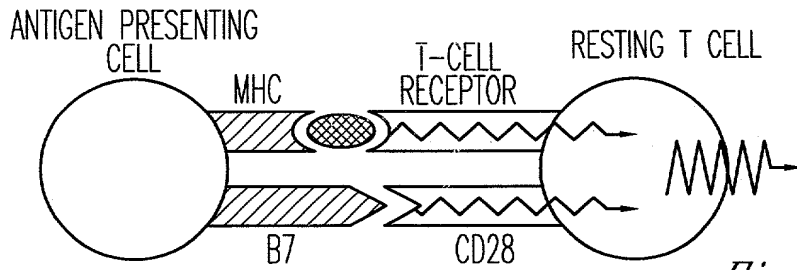


Fig. 4a

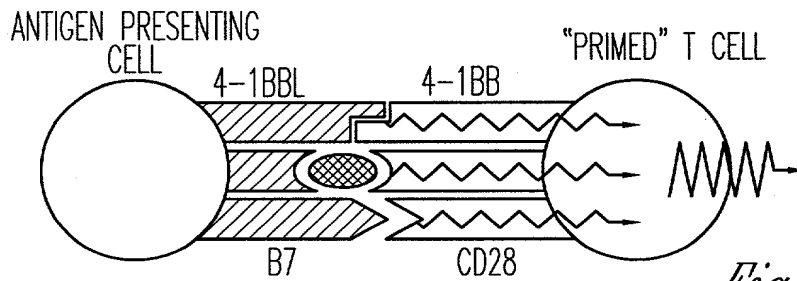


Fig. 4b

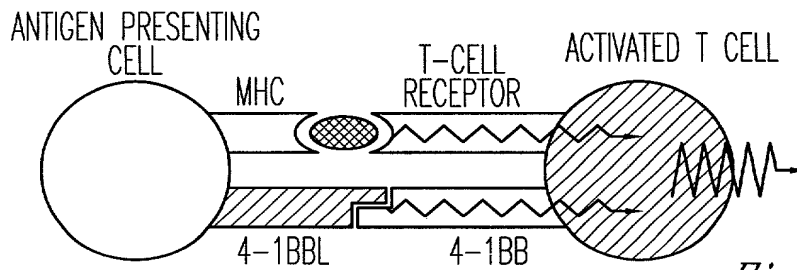


Fig. 4c

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BLOCKING STEPS IN T-CELL ACTIVATION PATHWAY

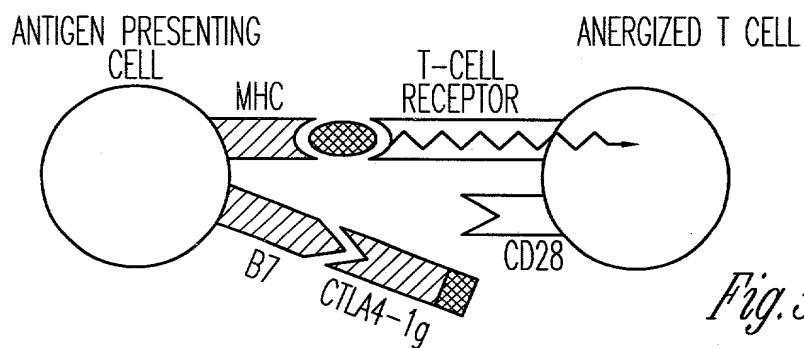


Fig. 5a

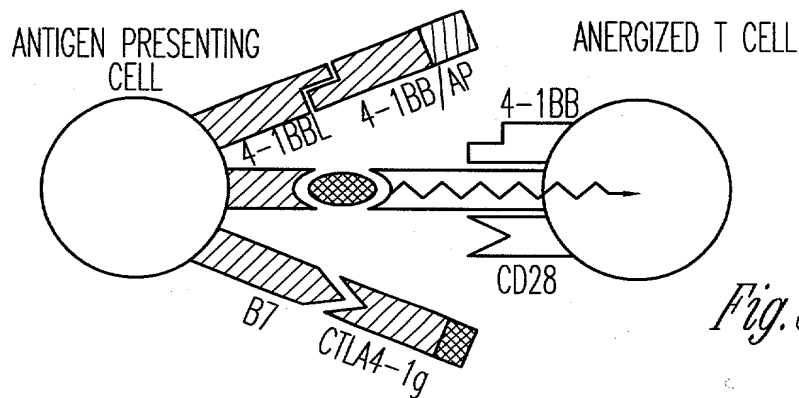


Fig. 5b

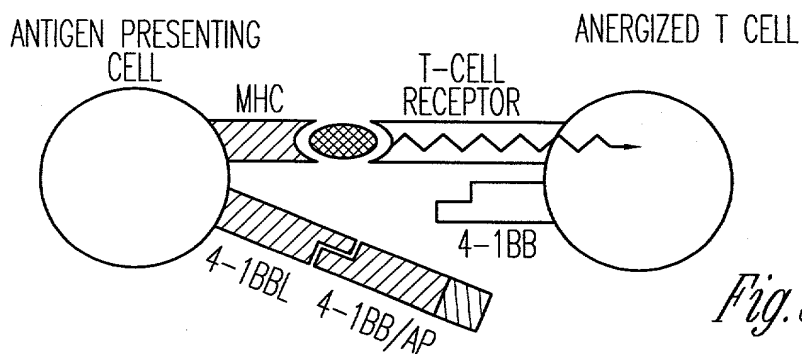


Fig. 5c